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RESEARCH AID

2

SPECIFICATIONS FOR CRUDE OIL IN THE USSR

ORR PROJECT 25.193
(Part I)

1 November 1954

CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

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Approved For Release 1999/09/08 : CIA-RDP79S01046A000100100001-9

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FOREWORD

This compilation of crude oil specifications in the USSR has been prepared as a research aid. It provides a logical arrangement and summarization of data contained in a published translation of GOST (Gosudarstvennyy obshchesoyuznyy standart -- State All-Union Standard) 912-46. No conclusions or interpretations based on these specification data are made.

These data constitute Part I of ORR Project 25.193. Part II will cover Soviet specifications on a selected list of petroleum products.

No formal coordination has been sought. This information is available in translated form, and the arrangement presented here has been discussed with others in the intelligence community.

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SPECIFICATIONS FOR CRUDE OIL IN THE USSR

I. Introduction.

The crude oil specification data tabulated in Appendixes A, B, and C have been extracted from CIA, Foreign Documents Division, Translation No. 311, dated 13 August 1951, Classification of USSR Petroleums According to GOST 912-46.

These data represent the latest available factual information concerning Soviet crude oils. The description and specifications have been arranged, grouped, and summarized to provide an easily accessible research aid.

No attempt has been made to draw conclusions of any type from this material. Supplemental textual information may be found on pages 1 to 4 and 58 to 80 of the published translation described above.

In Appendix A, the 175 Soviet crude oils specified are summarized and arranged into five groups according to weight percent gasoline yield. The number and percent of total crudes falling into these groups is shown. Also shown within each group are the total number of crudes which comply with other standard specifications.

Appendix B is a breakdown, by oil regions, of the information contained in Appendix A.

In Appendix C the individual crude oils are grouped according to oil fields, and the specifications for each are given in detail.

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II. Alphabetical Index of Crude Oils.

Name of Crude	Region	GOST 912-46 Serial Number	Page
Achi	Dagestan	79	110
Adagumskaya	Kubano-Chernomorskiy	112	97
Ala-Myshikskaya	Fergana	68	99
Ali-Yurt	Groznyy	115	93
Andizhan, Pool VII	Fergana	71	99
Apsheronskiy, Heavy, Pool C_1	Kubano-Chernomorskiy	32	95
" , " , West Sections, Shirvanskiy Wells	" "	96	95
" , Light, Paraffin Frees, Pool C_2	" "	121	95
" , Levels I and III	" "	133	95
" , Central Sections, Shirvanskiy Wells	" "		96
Artem	Baku	95	69
Balakhany, Oily	Baku	34	68
" , Heavy	"	101	69
Baychunas, East Field	Emba	28	79
Baychunas, East Section, North Field	"	29	79
" , West Section, North Field, Neocomian	"	42	79
" , West Section, North Field, Jurassic	"	60	79
" , North Field, Neocomian	"	20	80
" , Aptian	"	7	80
" , Resinous	"	108	80
Bibi-Eybat, Heavy	Baku	92	65
" " , Light	"	98	65
" " , Paraffinic	"	120	66
Binagady, Heavy	"	99	70

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Binagady, Diatomic	Baku	106	71
Bitkovskaya	Western Ukraine	72	107
Bogachevskaya	Kamchatka	13	108
Borislav	Western Ukraine	86	107
Buguruslan	Second Baku	138	86
Buranchinskaya	" "	146	87
Buzovny	Baku	110	70
Bystrinskaya	Western Ukraine	14	107
Chakhnaglyarskaya	Baku	97	69
Changyrtash	Fergana	84	99
Chimion	Fergana	132	100
Chusovoy	Second Baku	143	85
Dossor, Central Field, Jurassic	Emba	2	72
" , Tas-Kuduskiy	"	12	72
" , 185th Section, Central Field	"	22	72
Dzhaksmayskaya	"	30	82
Ekhabi	Sakhalin	62	102
Gora-Asfal'tovaya, Light	Kubano-Chernomorskiy	82	96
Gorskaya, Heavy, Pool II	Groznyy	31	93
Gorskaya, " , Pools III and IV	"	48	94

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Gorskaya, Heavy, Pool XVIII	Groznyy	61	94
" , Paraffinic	"	64	94
Groznyy, Paraffinic, (Oktyabraskaya)	"	75	90
" , " , West Sections	"	76	90
" , " , Solenaya Balka Section	"	77	90
" , " , Layer under fault	"	78	90
" , " , Paraffin Free, Oily	"	104	91
Gudermes, Oil Well #7, Pool XXII	"	54	91
" , Oil Well #22, Pool XXII	"	65	91
Ishimbay	Second Baku	157	88
Iskine, Northern Section, Southeast Field	Emba	15	78
" , " " , New Eastern Field	"	16	78
" , West Section	"	26	78
" , East Section	"	27	78
Izberbash	Dagestan	80	110
Kala, Kalinskaya	Baku	130	71
" , Upper Formation	"	51	71
" , Lower Formation	"	53	71
Kalinovka-Kopeykinskaya	Second Baku	161	86
Kaluga	Kubano-Chernomorskiy	113	97
Kara-Chukhur, Upper	Baku	24	67

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Kara-Chukhur, Lower	Baku	73	67
Karatonskaya	Emba		75
Karlinskaya	Second Baku	144	87
Kasharskaya	Emba	3	75
Katangliyskaya	Sakhalin	45	102
Kaya-Kent	Dagestan	105	110
Keslerovskaya	Kubano-Chernomorskiy	119	97
Khadyzhenskaya, Light	" "	63	96
" , Heavy, Level III	" "	124	98
Khaudag	Central Asia	156	105
Khodzhe-Gasanskaya	Baku	35	66
Kimovskaya	Fergana	131	100
Kinzebulstovskaya	Second Baku	148	88
Komsomol, Plant Mixture	Emba	43	82
Komsomol, Aptian/Neocomian	"	8	82
Koschagyl, Central Field, Jurassic	"	47	80
" , " " , Resinous	"	109	81
" , " " , Sold by Liter	"	118	81
" , Southeast Field	"	50	81
" , Northwest Field	"	67	81
Krasnokamsk	Second Baku	151	85
Kulsarskaya, Central Section, IV Upper Jurassic	Emba		82
" , " " , XIX Middle Jurassic	"		83

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Kulsarskaya, Central Section, XIXa, Middle Jurassic	Emba		83
" , " " , Jurassic	"		83
" , " " , II Neocomian	"		83
" , " " , III Neocomian	"		84
Kura-Tsetse, Light	Kubano-Chernomorskiy	129	98
Kusyapkulovskaya	Second Baku	158	88
Kutaisskaya	Kubano-Chernomorskiy	123	97
Kuz'minovskaya	Second Baku	147	87
Kyurdakhany	Baku	111	69
Lok-Batan, Paraffinic	Baku	66	64
" " , Oily	"	89	64
" " , Resinous	"	93	64
Makat, Southeast Field, II Jurassic	Emba	5	72
" , " " , III Jurassic	"	17	73
" , " " , IV Jurassic	"	18	73
" , North Field, III Jurassic	"	4	73
" , " " , Permian Triassic	"	19	73
" , " " , I Jurassic	"	39	74
" , " " , IV Jurassic	"		74
Makhachkala	Dagestan	128	110
Malgobek, Heavy	Groznyy	88	92

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Malgobek, Light	Groznyy	127	92
Mashtagi	Baku	107	70
Muzhim-Biru	Groznyy	44	92
Naphthalic, Paraffinic	Kirovobad	49	109
" , with high Paraffin Content	"	87	109
Nebit-Dag	Turkmenistan	102	111
Nefteabad	Fergana	126	100
Neftechala	Baku	90	68
Nordvikskaya	Severnyy	137	106
Novostepanevskaya	Second Baku	162	86
Okha, Pool III	Sakhalin	114	102
" , Pool VII	"	116	102
" , Pools XI and XII	"	122	103
" , Pool XIII bis	"	134	103
" , Pool XIV	"		103
Oysangurskaya, Oil Well #5, Pool XXII	Groznyy	81	91
" , Oil Well #41, Pool XXII	"	69	92
Palvantashskaya	Fergana	125	99
Pirsagat	Baku	70	65
" , Oil Well #10	"	103	65

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Polaznenskaya	Second Baku	136	85
Puta, Oily	Baku	94	68
Ramaninskaya	Baku	33	66
Sagiz, East Field, Lower Aptian	Emba	1	75
" , " " , Upper Aptian	"	10	76
" , " " , IV Neocomian	"	40	76
" , " " , Middle Jurassic	"	58	76
" , South Field, III Lower Aptian	"	11	76
" , " " , Middle Jurassic	"	21	77
" , " " , IV Neocomian	"	59	77
" , " " , XIII-XIV Middle Jurassic	"		77
" , West Field	"	41	77
Sed'iel'skaya	Ukhta	141	104
Severokamskaya	Second Baku	135	85
Shirokaya Balka, Light	Kubano-Chernomorskiy	83	96
Shor-su, Pook K (VIII)	Fergana	85	100
" , Pool L (VII)	"	154	101
" , Pool M (V)	"		101
Shugurovo	Second Baku	160	89
Siazanskiy	Baku	36	66
Skhodnitsa	Western Ukraine	38	107

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(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Stavropol' Devonian	Second Baku	153	87
Sulu-Tepinskaya	Baku	100	70
Surakhany, White	"	9	63
" , Select	"	23	63
" , Oily	"	37	63
" , Ordinary	"	52	63
" , Heavy	"	57	64
Syzran'	Second Baku	152	86
Tash-Kalinskaya	Groznyy	56	94
Termen'-Yelginskaya	Second Baku	159	88
Tuymazy, Carboniferous	" "	139	89
" , Tournaisian	" "	149	89
" , Devonian	" "	150	89
Tyulegenskaya	Emba		75
Uch-Kizyl	Central Asia	145	105
Ukhta, Oil Field #I	Ukhta	155	104
" , Oil Field #III	"	142	104
Voznesenskaya, Heavy	Groznyy	91	93
" , Light	"	117	93

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Alphabetical Index of Crude Oils

(Continued)

Name of Crude	Region	GOST 912-46 Serial Number	Page
Yasamal'skaya	Baku	55	68
Yarega	Ukhta	140	104
Zheldybayskaya	Emba	6	74
Zhengel'dinskaya	"	46	74
Zykh, Upper	Baku	25	67
" , Lower	"	74	67

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APPENDIX A

Summary of Crude Oil Specifications, USSR

	Group I	Group II	Group III	Group IV	Group V	Total
Range of Gasoline Yield (Percent)	0	0.0/10.0	10.1/20.0	20.1/30.0	Over 30.1	
Number of Crude Oils	37	77	42	15	4	175
Percent of Total Crudes	21.2	44.0	24.0	8.6	2.2	100
Gasoline						
Yield, Wt. Percent (Average)	0.0	4.6	15.7	24.2	41.6	
Qualitative Index a/*						
1		31	3	0	1	35
2		21	5	1	0	27
3		25	34	14	3	76
0	37					37
Kerosene						
Yield, Percent (Estimated Average)	19.1	29.0	26.4	29.0	27.5	
Qualitative Index a/						
1	33	30	7	4		74
2	3	19	2		3	27
3	1	25	33	9	1	69
Oil Fraction						
Qualitative Index a/						
1	20	24	7	5	0	56
2	10	33	24	8	2	77
3	7	17	10	1	1	36
0					1	1

* Footnotes follow on p. 12.

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Summary of Crude Oil Specifications, USSR

(Continued)

	Group I	Group II	Group III	Group IV	Group V	Total
Oil Fraction (Continued)						
Group b/						
1	22	24	4	2	1	53
2	11	20	4	2	2	39
3	1	25	31	8	1	66
Distillate						
Total Yield to 300°C, Percent (Average)	19.3	34.3	40.7	51.2	68.0	
Resin						
Sub-Class (Percent)						
1 (17 and under)	10	13	4	5	2	34
2 (18 to 35)	14	27	16	6	1	64
3 (Over 35)	10	29	19	1	1	60
Sulfur						
Class (Percent)						
1 (0.5 and under)	30	60	24	12	4	130
2 (Over 0.5)	4	9	14			27

a/ Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr 0.903 and less
2	ON 65/71	ON 30/39	Sp gr 0.904/0.927
3	ON below 65	ON below 30	Sp gr above 0.927
0	No gasoline		No oil fraction

b/ Group

	Oil Fraction
1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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APPENDIX B

Regional Summary Tables

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Region		Page
1.	Baku	15
2.	Kubano-Chernomorskiy	18
3.	Dagestan	21
4.	Grozny	24
5.	Western Region of the Ukraine	27
6.	Fergana	30
7.	Central Asia South	33
8.	Kirovobad	36
9.	Emba	39
10.	Second Baku	42
11.	Sakhalin	45
12.	Ukhta	48
13.	Turkmenistan	51
14.	Severnyy	54
15.	Kamchatka	57

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1. Summary of Crude Oil Specifications by Oil Regions

Baku

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(8.4%)	27	(75%)	4	(11%)	1	(2.8%)	1	(2.8%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	5.1	10.1/20.0	15.3	20.1/30.0	25.0	Over 30.1	30.5
Octane Number			60/77	69.3	61.5/67.5	64.5		63.0		75.5
Qualitative Index a/*										
1				12						1
2				7		2				
3				8		2		1		
0		3								
Octane Number, Leaded			80/92	87.3		86.0				92.5
Kerosene										
Estimated Percent of Yield	14/22	19	24.8/46.6	33.5	20/40.3	31.2		31		65.5
Octane Number	40/46	43	26@20/51 b/*	35.0	24/42	35.0		45	Less than	36.0
Qualitative Index a/										
1				11		1		1		
2				7		2				1
3				9		1				

* Footnotes follow on p. 17.

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1. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(8.4%)	27	(75%)	4	(11%)	1	(2.8%)	1	(2.8%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1				6						
2		1		13		3				
3		2		8		1		1		
0										1
Group c/*										
1		3		14		3		1		1
2				6						
3				7		1				
Distillate										
Total Yield to 300°C (Percent)	14/22	19.0	24/52	39	36/59	46.5		56.0		96.0

* Footnotes follow on p. 17.

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1. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(8.4%)	27	(75%)	4	(11%)	1	(2.8%)	1	(2.8%)
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)				3						1
2 (18 to 35)				12		1		1		
3 (over 35)		3		12		3				
Residue Less Resin (Percent)	31/52	43.3	20/51	40.63	16/37	26.9		34.0		4.0
Sulfur										
Class (Percent)										
1 (0.5 and under)		3		27		4		1		1
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b. Does not include 1 Crude @ 0 Octane No.

c.

	Oil Fraction	
Group 1	Pour point	-16°C and below
2	Pour point	-15°C to +20°C
3	Pour point	above +20°C

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2. Summary of Crude Oil Specifications by Oil Regions

Kubano-Chernomorskiy

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(14.2%)	6	(42.8%)	4	(28.6%)	1	(7.2%)	1	(7.2%)
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	4.5	10.1/20.0	16.5	20.1/30.0	21.5	Over 30.1	31.0
Octane Number			62/76	70.0	62.5/69	65.4		1@59.0		1@58.0
Qualitative Index a/*										
1				3						
2				2		2				
3				1		2		1		1
0		2								
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield	11/17	14.0	22/32	27.0	22/27	24.5		1@21.5		1@25.0
Octane Number	50/56	53.0	29/50	41.5	20/57	36.0		1@25.0		1@30.0
Qualitative Index a/										
1				3		2				
2		2		2						1
3				1		2		1		

* Footnotes follow on p. 20.

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2. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(14.2%)	6	(42.8%)	4	(28.6%)	1	(7.2%)	1	(7.2%)
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2				2		2		1		1
3		2		3		2				
0										
Group b/*										
1		2		2						
2						1				1
3				3		3		1		
Distillate										
Total Yield to 300°C (Percent)	11/17	14.0	23/39	31.0	38/42	41.0		1@43		1@56

* Footnotes follow on p. 20.

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2. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(14.2%)	6	(42.8%)	4	(28.6%)	1	(7.2%)	1	(7.2%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)				1		2		1		
2 (18 to 35)		2		4		2				1
3 (over 35)										
Residue Less Resin (Percent)	23/29	26.3	35/47	42.04	33/42	38.4		41.0		28.2
Sulfur										
Class (Percent)										
1 (0.5 and under)		2		5		4		1		1
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction	
Group 1	Pour point	-16°C and below
2	Pour point	-15°C to +20°C
3	Pour point	above +20°C

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3. Summary of Crude Oil Specifications by Oil Regions

Dagestan

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(25%)	2	(50%)	1	(25%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0		10.1/20.0	11.0	20.1/30.0	21.0	Over 30.1	35.0
Octane Number						61.0		60.0		55.0
Qualitative Index a/*										
1										
2										
3						1		2		1
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield						24.0	23/26	24.5		10.0
Octane Number						40.0	15/15	15.0		23.0
Qualitative Index a/										
1						1				
2										
3								2		1

* Footnotes follow on p. 23.

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3. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(25%)	2	(50%)	1	(25%)
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2										
3								2		1
0						1				
Group b/*										
1						1				
2										
3								2		1
Distillate										
Total Yield to 300°C (Percent)						35.0	44/47	45.5	(Estimated)	45.0

* Footnotes follow on p. 23.

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3. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(25%)	2	(50%)	1	(25%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under) 2 (18 to 35) 3 (over 35)						1		2		1
Residue Less Resin (Percent)						35.1	39/44	41.7		29.2
Sulfur										
Class (Percent)										
1 (0.5 and under) 2 (over 0.5)						1		2		1

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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4. Summary of Crude Oil Specifications by Oil Regions

Groznyy

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(5%)	10	(50%)	6	(30%)	3	(15%)	0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	1.6	10.1/20.0	17.6	20.1/30.0	26.5	Over 30.1	
Octane Number			51.5/82	74.4	52.5/60	55.3	58/60	58.7		
Qualitative Index a/*										
1				7						
2				2						
3				1		6		3		
0		1								
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield		1@11	17.6/27	22.2	21/26	23.0	20.5/25	22.2		
Octane Number		53	22/54	38.1	15/29 b/*	22.0	41/44 c/*	43.0		
Qualitative Index a/										
1		1		6				2		
2				1						
3				3		6		1		

* Footnotes follow on p. 26.

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4. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(5%)	10	(50%)	6	(30%)	3	(15%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1				2		1		1		
2		1		7		5		2		
3				1						
0										
Group d/*										
1		1		3				1		
2				3		1		1		
3				4		5		1		
Distillate										
Total Yield to 300°C (Percent)	1@11		18/32	24.4	29/46	38.7	42/55	49.0		

* Footnotes follow on p. 26.

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4. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(5%)	10	(50%)	6	(30%)	3	(15%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										
2 (18 to 35)		1		6		5		2		
3 (over 35)				4		1		1		
Residue Less Resin (Percent)		61/4	22/57	46.0	28/48	42.0	33/35	34.6		
Sulfur										
Class (Percent)										
1 (0.5 and under)		1		10		6		3		
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b. Does not include 1 Crude at 0 Octane No.

c. Does not include 1 Crude at 2 Octane No.

d.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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5. Summary of Crude Oil Specifications by Oil Regions

Western Region of the Ukraine

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		2	(50%)	1	(25%)	0		1	(25%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	3.3	10.1/20.0	12.0	20.1/30.0		Over 30.1	66.0
Octane Number			60/60	60.0		60.0				55.0
Qualitative Index a/*										
1										
2										
3				2		1				1
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield			47.5/54	50.8		33.0				9.0
Octane Number			1@32 b/*	32.0		26.0				30.0
Qualitative Index a/										
1										
2				1						1
3				1		1				

* Footnotes follow on p. 29.

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5. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		2	(50%)	1	(25%)	0		1	(25%)
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1				1						
2				1		1				
3										1
0										
Group c/*										
1				1						
2										1
3				1		1				
Distillate										
Total Yield to 300°C (Percent)			52/56	54.0		45.0				75.0

* Footnotes follow on p. 29.

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5. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		2	(50%)	1	(25%)	0		1	(25%)
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										1
2 (18 to 35)				2		1				
3 (over 35)										
Residue Less Resin (Percent)			33/35	34.25		38.5				23.2
Sulfur										
Class (Percent)										
1 (0.5 and under)										1
2 (over 0.5)				2		1				

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b. Does not include 1 Crude @ 0 Octane No.

c.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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6. Summary of Crude Oil Specifications by Oil Regions

Fergana

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		3	(30%)	6	(60%)	1	(10%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	7.7	10.1/20.0	13.8	20.1/30.0	21.0	Over 30.1	
Octane Number			50/55	52.5	41/55.5	51.0		1@54.0		
Qualitative Index a/*										
1										
2										
3				3		6		1		
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield			27/33	30.0	21/31.2	26.5		1@30.0		
Octane Number			20/27	24.0	12/28	23.0		1@ 9.0		
Qualitative Index a/										
1										
2										
3				3		6		1		

* Footnotes follow on p. 32.

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6. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		3	(30%)	6	(60%)	1	(10%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1				1		3				
2				2		3		1		
3										
0										
Group b/*										
1										
2				1		4				
3										
Distillate										
Total Yield to 300°C (Percent)			35/43	39.0	33/45	40.0		1@51		

* Footnotes follow on p. 32.

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6. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		3	(30%)	6	(60%)	1	(10%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)						3				
2 (18 to 35)				1		1				
3 (over 35)										
Residue Less Resin (Percent)			23/36	29.35	26/52	40.0		37.7		
Sulfur										
Class (Percent)										
1 (0.5 and under)				1		4				
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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7. Summary of Crude Oil Specifications by Oil Regions

Central Asia South

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			2	(100%)						
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	3.5	10.1/20.0		20.1/30.0		Over 30.1	
Octane Number				55.5						
Qualitative Index a/*										
1										
2										
3				2						
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield			10/17	13.5						
Octane Number			27/32	29.5						
Qualitative Index a/										
1										
2				1						
3				1						

* Footnotes follow on p. 35.

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7. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			2	(100%)						
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1				1						
2				1						
3										
0										
Group b/*										
1										
2				2						
3										
Distillate										
Total Yield to 300°C (Percent)			12/22	17.0						

* Footnotes follow on p. 35.

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7. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			2	(100%)						
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										
2 (18 to 35)				2						
3 (over 35)										
Residue Less Resin (Percent)			31/35	33.2						
Sulfur										
Class (Percent)										
1 (0.5 and under)										
2 (over 0.5)				2						

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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8. Summary of Crude Oil Specifications by Oil Regions

Kirovobad

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(50%)	1	(50%)	0		0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	1.0	10.1/20.0		20.1/30.0		Over 30.1	
Octane Number				83.0						
Qualitative Index a/*										
1				1						
2										
3										
0										
Octane Number, Leaded		1								
Kerosene										
Estimated Percent of Yield		36.0		31.5						
Octane Number		27.0		45.0						
Qualitative Index a/										
1				1						
2										
3		1								

* Footnotes follow on p. 38.

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8. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(50%)	1	(50%)	0		0		0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2		1		1						
3										
0										
Group b/*										
1										
2				1						
3		1								
Distillate										
Total Yield to 300°C (Percent)		36.0		32.5						

* Footnotes follow on p. 38.

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8. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(50%)	1	(50%)	0		0		0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under) 2 (18 to 35) 3 (over 35)		1		1						
Residue Less Resin (Percent)		47.3		51.2						
Sulfur										
Class (Percent)										
1 (0.5 and under) 2 (over 0.5)		1		1						

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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9. Summary of Crude Oil Specifications by Oil Regions

Emba

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	24	(49%)	15	(30.6%)	4	(8.2%)	6	(12.2%)	0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	3.6	10.1/20.0	15.0	20.1/30.0	24.4	Over 30.1	
Octane Number			55/77.5	69.0	59.75	69.0	50/62.5	61.0		
Qualitative Index a/*										
1				6		2				
2				6						
3				3		2		6		
0		24								
Octane Number, Leaded			1@90							
Kerosene										
Estimated Percent of Yield	9/30	20.0	20/43	27.2	28/33	30.2	21/27	36.0		
Octane Number	37/51	45.5	23/35.5	36.7	{1@10	24.5	17/30	23.3		
Qualitative Index a/					{3@23/40}					
1		23		4		1				
2		1		6						
3				2		3		4		

* Footnotes follow on p. 41.

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9. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	24	(49%)	15	(30.6%)	4	(8.2%)	6	(12.2%)	0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1		20		14		3		4		
2		4								
3										
0										
Group b/*										
1		13		3						
2		8		6		1		1		
3				2		2		3		
Distillate										
Total Yield to 300°C (Percent)	9/30	20.0	21/48	33.0	42/50	45.0	55/64	60.0		

* Footnotes follow on p. 41.

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9. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	24	(49%)	15	(30.6%)	4	(8.2%)	6	(12.2%)	0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)		10		9		1		4		
2 (18 to 35)		9		1		2				
3 (over 35)		2		1						
Residue Less Resin (Percent)	41/80	63.25	43/69	57.36	41.50	46.06	35/59	37.22		
Sulfur										
Class (Percent)										
1 (0.5 and under)		21		11		3		4		
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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10. Summary of Crude Oil Specifications by Oil Regions

Second Baku

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		6	(30%)	14	(70%)	0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	8.5	10.1/20.0	16.3	20.1/30.0		Over 30.1	
Octane Number			45/65	54.5	48/60	54.2				
Qualitative Index a/*										
1						1				
2				1						
3				5		13				
0										
Octane Number, Leaded			1@80		4@80/90					
Kerosene										
Estimated Percent of Yield			22/28.5	25.4	19.5/28	22.8				
Octane Number			8/32	22.0	1@52	---21.5				
Qualitative Index a/					13@5/28					
1						1				
2				1						
3				5		13				

* Footnotes follow on p. 44.

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10. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		6	(30%)	14	(70%)	0		0	
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2				3		9				
3				3		5				
0										
Group b/*										
1										
2				2						
3				4		14				
Distillate										
Total Yield to 300°C (Percent)			30/38	34.0	32/43	39.2				

* Footnotes follow on p. 44.

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10. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	0		6	(30%)	14	(70%)	0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)						2				
2 (18 to 35)				6		12				
3 (over 35)										
Residue Less Resin (Percent)			12/27	22.47	18/40	29.67				
Sulfur										
Class (Percent)										
1 (0.5 and under)						1				
2 (over 0.5)				6		13				

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b. Oil Fraction

Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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11. Summary of Crude Oil Specifications by Oil Regions

Sakhalin

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(28.6%)	4	(57.2%)	0		1	(14.2%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	3.8	10.1/20.0	Nil	20.1/30.0	27.0	Over 30.1	Nil
Octane Number			70/75	72.5				71.5		
Qualitative Index a/*										
1				2						
2				2				1		
3										
0		2								
Octane Number, Leaded								87.5		
Kerosene										
Estimated Percent of Yield	10/26	18.0	26/31.6	28.2				37.0		
Octane Number	40/48	44.0	40/48	44.0				40.0		
Qualitative Index a/										
1		2		4				1		
2										
3										

* Footnotes follow on p. 47.

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11. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(28.6%)	4	(57.2%)	0		1	(14.2%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2										
3		2		2				2		
0				1						
Group b/*										
1		2								
2				2						
3				1				1		
Distillate										
Total Yield to 300°C (Percent)	10/26	18.0	28/34	32.0				64.0		

* Footnotes follow on p. 47.

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11. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	2	(28.6%)	4	(57.2%)	0		1	(14.2%)	0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										
2 (18 to 35)		1		1				1		
3 (over 35)		1		2						
Residue Less Resin (Percent)	36/59	47.9	20/37	27.9				24.1		
Sulfur										
Class (Percent)										
1 (0.5 and under)		2		2				1		
2 (over 0.5)				1						

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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12. Summary of Crude Oil Specifications by Oil Regions

Ukhta

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(75%)	0		1	(25%)	0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0		10.1/20.0	15.0	20.1/30.0		Over 30.1	
Octane Number						52.0				
Qualitative Index a/*										
1										
2										
3										
0		3				1				
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield	12/17	14.3								
Octane Number	40/47	44.0				25.0				
Qualitative Index a/						25.0				
1										
2		3								
3						1				

* Footnotes follow on p. 50.

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12. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(75%)	0		1	(25%)	0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2		3				1				
3										
0										
Group b/*										
1										
2		3				1				
3										
Distillate										
Total Yield to 300°C (Percent)	12/17	14.3				40.0				

* Footnotes follow on p. 50.

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12. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	3	(75%)	0		1	(25%)	0		0	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										
2 (18 to 35)										
3 (over 35)		3				1				
Residue Less Resin (Percent)	29/44	36.1				24.1				
Sulfur										
Class (Percent)										
1 (0.5 and under)										
2 (over 0.5)		3				1				

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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13. Summary of Crude Oil Specifications by Oil Regions

Turkmenistan

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			1	(100%)						
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0	6.0	10.1/20.0		20.1/30.0		Over 30.1	
Octane Number				68.5						
Qualitative Index a/*										
1										
2				1						
3										
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield				29.0						
Octane Number				34.0						
Qualitative Index a/										
1				1						
2										
3										

* Footnotes follow on p. 53.

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13. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			1	(100%)						
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2				1						
3										
0										
Group b/*										
1				1						
2										
3										
Distillate										
Total Yield to 300°C (Percent)				35.0						

* Footnotes follow on p. 53.

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13. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
			1	(100%)						
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)				1						
2 (18 to 35)										
3 (over 35)				1						
Residue Less Resin (Percent)				34.5						
Sulfur										
Class (Percent)										
1 (0.5 and under)				1						
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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14. Summary of Crude Oil Specifications by Oil Regions

Severnyy

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(100%)								
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0		10.1/20.0		20.1/30.0		Over 30.1	
Octane Number										
Qualitative Index a/*										
1										
2										
3										
0		1								
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield		20.0								
Octane Number		45.0								
Qualitative Index a/										
1		1								
2										
3										

* Footnotes follow on p. 56.

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14. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(100%)								
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2										
3		1								
0										
Group b/*										
1		1								
2										
3										
Distillate										
Total Yield to 300°C (Percent)		20.0								

* Footnotes follow on p. 56.

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14. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
	1	(100%)								
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)										
2 (18 to 35)										
3 (over 35)		1								
Residue Less Resin (Percent)		31.2								
Sulfur										
Class (Percent)										
1 (0.5 and under)										
2 (over 0.5)		1								

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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15. Summary of Crude Oil Specifications by Oil Regions

Kamchatka

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(100%)				
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Gasoline										
Percent of Yield	Nil	Nil	0.0/10.0		10.1/20.0	15.0	20.1/30.0		Over 30.1	
Octane Number						68.0				
Qualitative Index a/*										
1										
2										
3						1				
0										
Octane Number, Leaded										
Kerosene										
Estimated Percent of Yield						24.0				
Octane Number						40.0				
Qualitative Index a/										
1						1				
2										
3										

* Footnotes follow on p. 59.

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15. Summary of Crude Oil Specifications by Oil Regions

(Continued)

	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(100%)				
Product	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Oil Fraction										
Qualitative Index a/*										
1										
2										
3										
0						1				
Group b/*										
1										
2										
3						1				
Distillate										
Total Yield to 300°C (Percent)						39.0				

* Footnotes follow on p. 59.

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15. Summary of Crude Oil Specifications by Oil Regions

(Continued)

Product	Group I		Group II		Group III		Group IV		Group V	
	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total	Number of Crudes	Percent of Total
					1	(100%)				
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
Resin										
Sub-Class (Percent)										
1 (17 and under)						1				
2 (18 to 35)										
3 (over 35)										
Residue Less Resin (Percent)						60.0				
Sulfur										
Class (Percent)										
1 (0.5 and under)						1				
2 (over 0.5)										

a. Qualitative Index:

	Gasoline	Kerosene	Oil Fraction
1	ON 72 and above	ON 40 and above	Sp gr .903 and less
2	ON 65/71	ON 30/39	Sp gr .904/.927
3	ON below 65	ON below 30	Sp gr above .927
0	No gasoline		No oil fraction

b.

	Oil Fraction
Group 1	Pour point -16°C and below
2	Pour point -15°C to +20°C
3	Pour point above +20°C

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APPENDIX C

CRUDE OIL SPECIFICATIONS BY FIELDS

Explanatory Notes.

The notes below are intended to clarify the meanings of the various items specified in the following tables.

1. Classification According to GOST 912-46: Example - 1;2;3;332

The numbers in each such numerical classification indicate the following:

(A) First Number - Sulfur Content
- 1 - 0.5 percent or below
- 2 - above 0.5 percent

(B) Second Number - Resin Content
- 1 - 17 percent and below
- 2 - 18 - 35 percent
- 3 - over 35 percent

(C) Third Number - Paraffin Content
- 1 - Pour point -16°C and below
- 2 - Pour point -15°C to + 20°C
- 3 - Pour point Above + 20°C

(D) Three Digit Number

(1) First - Octane No. of Gasoline Fraction
- 1 - 72 and above
- 2 - 65 to 71
- 3 - below 65
- 0 - No gasoline

(2) Second - Octane No. of Kerosene Fraction
- 1 - 40 and above
- 2 - 30 to 39
- 3 - below 30

(3) Third - Specific Gravity of Oil Fraction
- 1 - 0.903 and below
- 2 - 0.904 to 0.927
- 3 - above 0.927

2. (a) This is the "Serial Number" used to identify the crude oils as listed in Appendix I, CIA, Foreign Documents Division Translation No. 311, Classification of USSR Petroleums According to GOST 912-46, 13 August 1951.

3. (b) Gasoline, 40 percent of which is distilled at a temperature up to 100°C.

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4. (c) Three (3) milliliters of ethyl fluid (approximately 54 percent by weight TEL) per kilogram of gasoline. This is equivalent to about 4.3 milliliters of tetra ethyl lead per U. S. gallon.

5. (d) Represents the arithmetical difference between the total yield of distillate boiling to 300°C and the gasoline yield. (Also includes raw materials for tractor fuels, solvents, naphthas, and portions of jet fuels and gas oils.)

6. (e) The residue was obtained by subtracting the total distillate yield to 300°C from 100 percent. By multiplying this "residue" value (percent) by the percent of "resin in the residue," as given in GOST 912-46, the percent of "resin in the crude" was determined. The "residue less resin" is equal to 100 percent minus the sum of the total distillate to 300°C plus the "resin in the crude."

7. (f) The oil fraction is that fraction of the crude oil which has a kinematic viscosity at 50°C of 52 centistokes (7 degrees Engler at 50 degrees Centigrade).

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Crude Oil Specifications

Baku

	Surakhany White	Surakhany Select	Surakhany Oily	Surakhany Ordinary
Classification According to GOST 912-46	1;1;1;120	1;1;3;131	1;2;1;322	1;2;2;132
Serial Number a/	9	23	37	52
Sulfur (Weight Percent)	0.10	0.12	0.30	0.19
Gasoline				
Yield (Weight Percent) b/	30.5	7.1	5.5	4.7
Octane Number	75.5	74.5	61.5	74.5
Octane Number (Leaded) c/	92.5	91	83.5	
Kerosene				
Yield Percent d/	65.5	35.9	32.5	37.3
Octane Number	Below 36	25	35	27
Distillate Yield to 300°C (Percent)	96	43	38	42
Residue (Percent) e/	4	57	62	58
Resin (Residue) (Percent) e/	0	14	34	18
Resin (Crude) (Percent) e/	0	8	21.1	10.4
Residue Less Resin (Percent) e/	4	49	40.9	47.6
Oil Fraction f/				
Gravity		.901	.924	.904
Viscosity/Gravity Constant		.843	.875	.847
Pour Point (°C)		+25	Below -20	+16

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Crude Oil Specifications (Continued)

Baku

	Surakhany Heavy	Lok-Batan Paraffinic	Lok-Batan Oily	Lok-Batan Resinous
Classification According to GOST 912-46	1;2;2;332	1;2;3;232	1;3;1;112	1;3;1;113
Serial Number a/	57	66	89	93
Sulfur (Weight Percent)	0.28	0.25	0.20	0.20
Gasoline				
Yield (Weight Percent) b/	4.7	7	3.8	1.3
Octane Number	62.5	66.5	73.5	77
Octane Number (Leaded) c/	80			
Kerosene				
Yield Percent d/	26.3	29	26.2	26.7
Octane Number	29	27	45	51
Distillate Yield to 300°C (Percent)	31	36	30	28
Residue (Percent) e/	69	64	70	72
Resin (Residue) (Percent) e/	30	20	43	72
Resin (Crude) (Percent) e/	20.7	12.8	30.1	51.8
Residue Less Resin (Percent) e/	48.3	51.2	39.9	20.2
Oil Fraction f/				
Gravity	.921	.913	.927	.937
Viscosity/Gravity Constant	.871	.860	.879	.893
Pour Point (°C)	+14	+38	Below -20	Below -20

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Crude Oil Specifications (Continued)

	Baku			
	Pirsagat	Pirsagat Oil Well No. 10	Bibi-Eybat Heavy	Bibi-Eybat Light
Classification According to GOST 912-46	1;2;3;331	1;3;1;222	1;3;1;113	1;3;1;212
Serial Number a/	70	103	92	98
Sulfur (Weight Percent)	0.20	0.25	0.21	0.16
Gasoline				
Yield (Weight Percent) b/	9	20	3.8	7
Octane Number	62.5	65	73	69
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	31	20	37.2	44
Octane Number	12	Below 36.5	41.5	44
Distillate Yield to 300°C (Percent)	40	40	41	51
Residue (Percent) e/	60	60	59	49
Resin (Residue) (Percent) e/	33	68	46	37
Resin (Crude) (Percent) e/	19.8	40.8	27.1	18.3
Residue Less Resin (Percent) e/	40.2	19.2	31.9	30.7
Oil Fraction f/				
Gravity	.900	.921	.928	.922
Viscosity/Gravity Constant	.842	.871	.880	.872
Pour Point (°C)	+40	Below -20	Below -20	Below -20

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Crude Oil Specifications (Continued)

	Baku			
	Bibi-Eybat Paraffinic	Ramaninskaya Type II	Khodzhe-Gasanskaya	Siazanskiy Levels II, III, IV
Classification According to GOST 912-46	1;3;2;322	1;2;1;121	1;2;1;222	1;2;1;313
Serial Number a/	120	33	35	36
Sulfur (Weight Percent)	0.24	0.20	0.30	0.20
Gasoline				
Yield (Weight Percent) b/	8.6	5.8	10.7	25
Octane Number	64	74.5	67.5	63
Octane Number (Leaded) c/	85	91		
Kerosene				
Yield Percent d/	30.4	39.2	40.3	31
Octane Number	38.5	33	36.5	45
Distillate Yield to 300°C (Percent)	39	45	51	56
Residue (Percent) e/	61	55	49	44
Resin (Residue) (Percent) e/	40	23	29	25
Resin (Crude) (Percent) e/	24.4	14.9	14.2	11.0
Residue Less Resin (Percent) e/	36.6	40.1	34.8	33.0
Oil Fraction f/				
Gravity	.922	.898	.923	.948
Viscosity/Gravity Constant	.872	.839	.873	.908
Pour Point (°C)	+11	Below -20	Below -20	Below -20

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Crude Oil Specifications (Continued)

Baku

	Kara-Chukhur Upper Formation	Kara-Chukhur Lower Formation	Zykh Upper Formation	Zykh Lower Formation
Classification According to GOST 912-46	1;1;3;131	1;2;3;332	1;1;3;331	1;2;3;332
Serial Number a/	24	73	25	74
Sulfur (Weight Percent)	0.12	0.14	0.18	0.30
Gasoline				
Yield (Weight Percent) b/	7.3	7	5.4	4.9
Octane Number	73.5	63	60	60.5
Octane Number (Leaded) c/		81.5		
Kerosene				
Yield Percent d/	36.7	29	46.6	31.1
Octane Number	21	29.5	Below 0	14.5
Distillate Yield to 300°C (Percent)	44	36	52	36
Residue (Percent) e/	56	64	48	64
Resin (Residue) (Percent) e/	14	28	8	31
Resin (Crude) (Percent) e/	7.9	17.9	4	19.8
Residue Less Resin (Percent) e/	48.1	46.1	44	44.2
Oil Fraction f/				
Gravity	.896	.919	.896	.916
Viscosity/Gravity Constant	.836	.868	.836	.864
Pour Point (°C)	Above +40	Above +27	Above +40	Above +40

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Crude Oil Specifications (Continued)

	Baku			
	Yasamal'skaya	Neftechala	Puta Oily	Balakhany Oily Type I
Classification According to GOST 912-46	1;2;2;323	1;3;1;112	1;3;1;113	1;2;1;121
Serial Number a/	55	90	94	34
Sulfur (Weight Percent)	0.28	0.25	0.30	0.11
Gasoline				
Yield (Weight Percent) b/	6.6	7	2	5.5
Octane Number	61	76	74.5	74.5
Octane Number (Leaded) c/				91
Kerosene				
Yield Percent d/	27.4	29	31	35.5
Octane Number	31.5	44	46.5	36
Distillate Yield to 300°C (Percent)	34	36	33	41
Residue (Percent) e/	66	64	67	59
Resin (Residue) (Percent) e/	30	54.7	51	25
Resin (Crude) (Percent) e/	19.8	35	34.2	14.8
Residue Less Resin (Percent) e/	46.2	29	32.8	44.2
Oil Fraction f/				
Gravity	.932	.915	.929	.903
Viscosity/Gravity Constant	.886	.862	.882	.846
Pour Point (°C)	-10	Below -20	Below -20	Below -20

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Crude Oil Specifications (Continued)

Baku

	Balakhany Heavy	Artem	Chakhnaglyarskaya	Kyurdakhany
Classification According to GOST 912-46	1;3;1;213	1;3;1;113	1;3;1;212	1;3;1;013
Serial Number a/	101	95	97	111
Sulfur (Weight Percent)	0.30	0.33	0.44	.30
Gasoline				
Yield (Weight Percent) b/	2.2	0.5	4.7	0
Octane Number	70	76	65	
Octane Number (Leaded) c/	88		89.5	
Kerosene				
Yield Percent d/	24.8	23.5	26.3	14
Octane Number	46	40	44.5	46
Distillate Yield to 300°C (Percent)	27	24	31	14
Residue (Percent) e/	73	76	69	86
Resin (Residue) (Percent) e/	37	50	46	40
Resin (Crude) (Percent) e/	27	38	31.7	34
Residue Less Resin (Percent) e/	46.0	38	37.3	52
Oil Fraction f/				
Gravity	.933	.931	.925	.930
Viscosity/Gravity Constant	.887	.884	.876	.883
Pour Point (°C)	Below -20	Below -20	Below -20	Below -20

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Crude Oil Specifications (Continued)

	Baku			
	Sulu-Tepinskaya	Mashtagi	Buzovny	Binagady Heavy
Classification According to GOST 912-46	1;3;1;213	1;3;1;012	1;3;1;013	1;3;1;213
Serial Number a/	100	107	110	99
Sulfur (Weight Percent)	0.30	0.30	0.30	0.33
Gasoline				
Yield (Weight Percent) b/	2.7	0	0	3.2
Octane Number	69			68.5
Octane Number (Leaded) c/	88			86.5
Kerosene				
Yield Percent d/	42.3	22	22	26.8
Octane Number	41.5	42	40	44
Distillate Yield to 300°C (Percent)	45	22	22	30
Residue (Percent) e/	55	78	78	70
Resin (Residue) (Percent) e/	39	Above 60	40	40
Resin (Crude) (Percent) e/	21.4	46.8	31.2	28
Residue Less Resin (Percent) e/	33.6	31.2	46.8	42
Oil Fraction f/				
Gravity	.932	.925	.928	.934
Viscosity/Gravity Constant	.886	.876	.880	.889
Pour Point (°C)	Below -20	Below -20	Below -20	Below -20

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Crude Oil Specifications (Continued)

Baku

	Binagady Diatomic	Kala Kalinskaya Series	Kala Upper Formation	Kala Lower Formation
Classification According to GOST 912-46	1;3;1;313	1;3;3;332	1;2;2;122	1;2;2;222
Serial Number a/	106	130	51	53
Sulfur (Weight Percent)	0.30	0.30	0.26	0.30
Gasoline				
Yield (Weight Percent) b/	19.5	11	5.3	3.5
Octane Number	61.5	64	77	70
Octane Number (Leaded) c/		86	92	88
Kerosene				
Yield Percent d/	39.5	25	44.7	34.5
Octane Number	42	Below 24	35	33
Distillate Yield to 300°C (Percent)	59	36	50	38
Residue (Percent) e/	41	64	50	62
Resin (Residue) (Percent) e/	Above 60	42	30	29
Resin (Crude) (Percent) e/	24.6	26.9	15.0	18
Residue Less Resin (Percent) e/	16.4	37.1	35.0	44.0
Oil Fraction f/				
Gravity	.933	.914	.915	.916
Viscosity/Gravity Constant	.887	.861	.862	.864
Pour Point (°C)	Below -22	+35	+ 9	+ 9

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Crude Oil Specifications

Emba

	Dossor, Central Field, Jurassic	Dossor, Tas-Kuduskiy Section Jurassic	Dossor, 185th Section, Central Field Jurassic	Makat, Southeast Field, II Jurassic
Classification According to GOST 912-46	1;1;1;211	1;1;2;211	1;1;3;111	1;1;1;011
Serial Number a/	2	12	22	5
Sulfur (Weight Percent)	0.13	0.22	0.20	0.20
Gasoline				
Yield (Weight Percent) b/	2.5	2.4	4.7	0
Octane Number	70	67	74	
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	38.5	22.6	43.	23
Octane Number	40	45	About 40	About 50
Distillate Yield to 300°C (Percent)	41	25	48	23
Residue (Percent) e/	59	75	52	77
Resin (Residue) (Percent) e/	6	7.5	3	15
Resin (Crude) (Percent) e/	3.5	5.6	1.6	11.6
Residue Less Resin (Percent) e/	55.5	69.4	50.4	65.4
Oil Fraction f/				
Gravity	.895	.881	.873	.894
Viscosity/Gravity Constant	.835	.815	.804	.833
Pour Point (°C)	-40	- 5	+22	Below -20

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Crude Oil Specifications (Continued)

Emba

	Makat, Southeast Field, III Jurassic	Makat, Southeast Field, IV Jurassic	Makat, North Field, III Jurassic	Makat, North Field, Permian-Triassic
Classification According to GOST 912-46	1;1;2;011	1;1;2;011	1;1;1;011	1;1;2;011
Serial Number a/	17	18	4	19
Sulfur (Weight Percent)	0.20	0.20	0.20	0.20
Gasoline				
Yield (Weight Percent) b/	0	0	0	0
Octane Number				
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	25	30	23	26
Octane Number	About 50	About 50	About 50	About 50
Distillate Yield to 300°C (Percent)	25	30	23	26
Residue (Percent) e/	75	70	77	74
Resin (Residue) (Percent) e/	11	7	17	8.5
Resin (Crude) (Percent) e/	8.2	4.9	13.0	6.3
Residue Less Resin (Percent) e/	66.8	65.1	64.0	67.7
Oil Fraction f/				
Gravity	.886	.879	.894	.879
Viscosity/Gravity Constant	.822	.812	.833	.812
Pour Point (°C)	-14	- 6	Below -20	+11

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Crude Oil Specifications (Continued)

	Emba: Makat, North Field, I Jurassic	Emba: Makat, North Field, IV Jurassic	Zhengel'dinskaya Aptian	Zheldybayskaya Jurassic
Classification According to GOST 912-46	1;2;1;011	011	1;2;1;021	1;1;1;011
Serial Number a/	39		46	6
Sulfur (Weight Percent)	0.20		0.34	0.20
Gasoline				
Yield (Weight Percent) b/	0	0	0	0
Octane Number				
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	20		21	9
Octane Number	About 50	About 50	37	41
Distillate Yield to 300°C (Percent)	20		21	9
Residue (Percent) e/	80		79	91
Resin (Residue) (Percent) e/	21		23	12
Resin (Crude) (Percent) e/	16.8		18.2	10.9
Residue Less Resin (Percent) e/	63.2		60.8	80.1
Oil Fraction f/				
Gravity	.898	.879	.901	.899
Viscosity/Gravity Constant	.839		.843	.840
Pour Point (°C)	Below -20		-25	-38

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Crude Oil Specifications (Continued)

	Emba			
	Tyulegenskaya Neocomian	Karatonskaya	South Kashkarskaya, Middle Jurassic	Sagiz, East Field, Lower Aptian
Classification According to GOST 912-46	012	012	1;1;1;221	1;1;1;121
Serial Number a/			3	1
Sulfur (Weight Percent)			0.17	0.20
Gasoline				
Yield (Weight Percent) b/	0	0	1	3
Octane Number			70	74.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/			23	21
Octane Number	42	48.5	34	38
Distillate Yield to 300°C (Percent)			24	24
Residue (Percent) e/			76	76
Resin (Residue) (Percent) e/			17	9
Resin (Crude) (Percent) e/			12.9	6.8
Residue Less Resin (Percent) e/			63.1	69.2
Oil Fraction f/				
Gravity	.912	.925	.890	889
Viscosity/Gravity Constant			.828	.826
Pour Point (°C)			-35	-18

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Crude Oil Specifications (Continued)

Emba

	Sagiz, East Field, Upper Aptian	Sagiz, East Field, IV Neocomian	Sagiz, East Field, Middle Jurassic	Sagiz, South Field, III Lower Aptian
Classification According to GOST 912-46	1;1;2;121	1;2;1;011	1;2;2;011	1;1;2;121
Serial Number a/	10	40	58	11
Sulfur (Weight Percent)	0.20	0.20	0.20	0.20
Gasoline				
Yield (Weight Percent) b/	3	0	0	3.8
Octane Number	77.5			72
Octane Number (Leaded) c/	90			
Kerosene				
Yield Percent d/	31	21	25	34.2
Octane Number	About 38	About 40	About 40	38
Distillate Yield to 300°C (Percent)	34	21	25	35
Residue (Percent) e/	66	79	75	65
Resin (Residue) (Percent) e/	7	19	18	7
Resin (Crude) (Percent) e/	4.6	15.0	13.5	4.5
Residue Less Resin (Percent) e/	61.4	64.0	61.5	60.5
Oil Fraction				
Gravity	.899	.901	.883	.879
Viscosity/Gravity Constant	.840	.843	.818	.812
Pour Point (°C)	- 6	Below -20	+10	+12

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Crude Oil Specifications (Continued)

Emba

	Sagiz, South Field, Middle Jurassic	Sagiz, South Field, IV Neocomian	Sagiz, South Field, XIII-XIV Middle Jurassic	Sagiz, West Field, Permian-Triassic
Classification According to GOST 912-46	1;1;2;011	1;2;2;011	-;-;-;12-	1;2;1;011
Serial Number a/	21	59		41
Sulfur (Weight Percent)	0.20	0.20		0.30
Gasoline				
Yield (Weight Percent) b/	0	0	3.8	0
Octane Number			72	0
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	25			17.5
Octane Number	About 40	About 40	38	40
Distillate Yield to 300°C (Percent)	25			17.5
Residue (Percent) e/	75			72.5
Resin (Residue) (Percent) e/	17	28		29
Resin (Crude) (Percent) e/	12.7			23.9
Residue Less Resin (Percent) e/	62.3			58.6
Oil Fraction f/				
Gravity	.886	.900		.901
Viscosity/Gravity Constant	.822	.842		.843
Pour Point (°C)	+10	+ 4		Below -20

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Crude Oil Specifications (Continued)

Emba

	Iskine, Northern Section, Southeast Field, Permian-Triassic	Iskine, Northern Section, New Eastern Field, Permian-Triassic	Iskine, West Section, Jurassic	Iskine, East Section, Jurassic
Classification According to GOST 912-46	1;1;2;331	1;1;2;331	1;1;3;331	1;1;3;331
Serial Number a/	15	16	26	27
Sulfur (Weight Percent)	0.10	0.10	0.05	0.10
Gasoline				
Yield (Weight Percent) b/	5	25	27	23
Octane Number	55	50	59	62
Octane Number (Leaded) c/		80		
Kerosene				
Yield Percent d/	31	35	37	37
Octane Number	23	Below 23	Below 17	Below 23
Distillate Yield to 300°C (Percent)	36	60	64	60
Residue (Percent) e/	64	40	36	40
Resin (Residue) (Percent) e/	6	5	2	9
Resin (Crude) (Percent) e/	3.8	2.0	.7	3.6
Residue Less Resin (Percent) e/	60.2	38.0	35.3	36.4
Oil Fraction f/				
Gravity	.880	.875	.872	.872
Viscosity/Gravity Constant	.814	.807	.803	.803
Pour Point (°C)	+18	- 7	-40	+39

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Crude Oil Specifications (Continued)

Emba

	Baychunas East Field, Jurassic	Baychunas East Section, North Field, Jurassic	Baychunas West Section, North Field, Neocomian	Baychunas West Section, North Field, Jurassic
Classification According to GOST 912-46	1;1;3;331	1;1;3;331	1;2;1;011	1;2;2;011
Serial Number a/	28	29	42	60
Sulfur (Weight Percent)	0.20	0.20	0.26	0.20
Gasoline				
Yield (Weight Percent) b/	5.6	21	0	0
Octane Number	58	58		
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	33.4	34	14	16
Octane Number	Below 30	Below 30	43	About 40
Distillate Yield to 300°C (Percent)	39	55	14	16
Residue (Percent) e/	61	45	86	84
Resin (Residue) (Percent) e/	12	13	33	22
Resin (Crude) (Percent) e/	7.3	5.8	28.4	18.5
Residue Less Resin (Percent) e/	53.7	39.2	57.6	65.5
Oil Fraction f/				
Gravity	.881	.870	.903	.893
Viscosity/Gravity Constant	.815	.800	.846	.832
Pour Point (°C)	+31	Above +30	Below -20	-11

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Crude Oil Specifications (Continued)

Emba

	Baychunas North Field, Neocomian	Baychunas Aptian	Baychunas Resinous, Neocomian	Koschagyl Central Field, Jurassic
Classification According to GOST 912-46	1;1;2;011	1;1;1;011	1;3;1;012	1;2;2;111
Serial Number a/	20	7	108	47
Sulfur (Weight Percent)	0.20	0.16	0.23	0.18
Gasoline				
Yield (Weight Percent) b/	0	0	0	14
Octane Number				75
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	19	22	14	28
Octane Number	About 40	42	51	40
Distillate Yield to 300°C (Percent)	19	22	14	42
Residue (Percent) e/	81	78	86	58
Resin (Residue) (Percent) e/	12	14	52	19
Resin (Crude) (Percent) e/	9.7	10.9	44.7	11.0
Residue Less Resin (Percent) e/	71.3	67.1	41.3	47.0
Oil Fraction f/				
Gravity	.880	.880	.915	.886
Viscosity/Gravity Constant	.814	.814	.862	.822
Pour Point (°C)	+11	-18	-36	+19

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Crude Oil Specifications (Continued)

Emba

	Koschagyl Resinous, Central Field, Neocomian	Koschagyl Liter Central Field, (Sold by the Liter)	Koschagyl Southeast Field, Permian-Triassic	Koschagyl Northwest Field, Jurassic
Classification According to GOST 912-46	1;3;1;012	1;3;2;211	1;2;2;121	1;2;3;331
Serial Number a/	109	118	50	67
Sulfur (Weight Percent)	0.40	0.21	0.49	0.18
Gasoline				
Yield (Weight Percent) b/	0	0.9	5.5	17
Octane Number		70	77.5	59
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	18	20.1	31.5	33
Octane Number	45	45.5	31.5	25
Distillate Yield to 300°C (Percent)	18	21	37	50
Residue (Percent) e/	82	79	63	50
Resin (Residue) (Percent) e/	41	45	30	18
Resin (Crude) (Percent) e/	33.6	35.5	18.9	9.0
Residue Less Resin (Percent) e/	48.4	43.5	44.1	41.0
Oil Fraction f/				
Gravity	.925	.902	.893	.885
Viscosity/Gravity Constant	.876	.844	.832	.821
Pour Point (°C)	-20	- 9	+ 9	+27

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Crude Oil Specifications (Continued)

Emba

	Komsomol (Narmundanaskaya), Plant Mixture	Komsomol (Narmundaskaya) At contact of Aptian and Neocomian	Dzhaksymayskaya Permian-Triassic	Kulsarskaya Central Section, IV Upper Jurassic
Classification According to GOST 912-46	1;2;1;011	1;1;1;011	1;1;3;331	-;-;-;2-1
Serial Number a/	43	8	30	
Sulfur (Weight Percent)	0.15	0.10	0.28	
Gasoline				
Yield (Weight Percent) b/	0	0	13.4	3.7
Octane Number			64.5	71.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	16	18	29.6	
Octane Number	47	40	10	
Distillate Yield to 300°C (Percent)	16	18	43	
Residue (Percent) e/	84	82	57	
Resin (Residue) (Percent) e/	24	14	12	
Resin (Crude) (Percent) e/	20.2	11.5	6.8	
Residue Less Resin (Percent) e/	63.8	70.5	50.2	
Oil Fraction f/				
Gravity	.880	.896	.885	.884
Viscosity/Gravity Constant	.828	.838	.821	
Pour Point (°C)	-30	-18	+35	

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Crude Oil Specifications (Continued)

Emba

	Kulsarskaya, Central Section, XIX Middle Jurassic	Kulsarskaya, Central Section, XIXa Middle Jurassic	Kulsarskaya, Central Section, Jurassic	Kulsarskaya, Central Section, II Neocomian
Classification According to GOST 912-46	-;-;-;3--	-;-;-;3--	-;-;-;13-	-;-;-;2-1
Serial Number a/				
Sulfur (Weight Percent)				
Gasoline				
Yield (Weight Percent) b/	21.5	29.2	15.3	0.7
Octane Number	62.5	60	74	70.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/				
Octane Number			23	
Distillate Yield to 300°C (Percent)				
Residue (Percent) e/				
Resin (Residue) (Percent) e/				
Resin (Crude) (Percent) e/				
Residue Less Resin (Percent) e/				
Oil Fraction f/				
Gravity				.889
Viscosity/Gravity Constant				
Pour Point (°C)				

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Crude Oil Specifications (Continued)

Emba

	Kulsarskaya, Central Section, II & III Neocomian
Classification According to GOST 912-46	-;-;-;3-1
Serial Number a/	
Sulfur (Weight Percent)	
Gasoline	
Yield (Weight Percent) b/	7.9
Octane Number	59
Octane Number (Leaded) c/	
Kerosene	
Yield Percent d/	
Octane Number	
Distillate Yield to 300°C (Percent)	
Residue (Percent) e/	
Resin (Residue) (Percent) e/	
Resin (Crude) (Percent) e/	
Residue Less Resin (Percent) e/	
Oil Fraction f/	
Gravity	.884
Viscosity/Gravity Constant	
Pour Point (°C)	

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Crude Oil Specifications

Second Baku

	Severokamskaya A Series	Polaznenskaya	Chusovoy	Krasnokamsk A Series
Classification According to GOST 912-46	2;2;3;332	2;2;3;332	2;3;3;113	2;3;3;332
Serial Number a/	135	136	143	151
Sulfur (Weight Percent)	0.70	0.90	4.5	1.0
Gasoline				
Yield (Weight Percent) b/	17	19	18.5	15.5
Octane Number	49	48	72	50
Octane Number (Leaded) c/			90	80
Kerosene				
Yield Percent d/	25	24	20.5	24.5
Octane Number	5	5	52	10
Distillate Yield to 300°C (Percent)	42	43	39	40
Residue (Percent) e/	58	57	61	60
Resin (Residue) (Percent) e/	31	31	Above 60	50
Resin (Crude) (Percent) e/	18.0	17.7	23.8	30.0
Residue Less Resin (Percent) e/	40.0	39.3	37.2	30.0
Oil Fraction f/				
Gravity	.915	.915	.980	.917
Viscosity/Gravity Constant	.862	.862	.954	.865
Pour Point (°C)	+28	+30	+23	+30

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Crude Oil Specifications (Continued)

	Second Baku			
	Buguruslan	Kalinovka-Kopeykinskaya	Novostepanevskaya	Syzran'
Classification According to GOST 912-46	2;3;2;332	2;3;3;333	2;3;3;333	2;3;3;332
Serial Number a/	138	161	162	152
Sulfur (Weight Percent)	2.8	3.83	2.70	2.0
Gasoline				
Yield (Weight Percent) b/	8.7	17	15	15
Octane Number	61	60	60	49
Octane Number (Leaded) c/		82.5		
Kerosene				
Yield Percent d/	26.3	22		20
Octane Number	16	26	27	28
Distillate Yield to 300°C (Percent)	35	39		35
Residue (Percent) e/	65	61		65
Resin (Residue) (Percent) e/	69	65	40	58
Resin (Crude) (Percent) e/	44.8	39.6		37.7
Residue Less Resin (Percent) e/	20.2	21.4		27.3
Oil Fraction f/				
Gravity	.913	.930	.930	.920
Viscosity/Gravity Constant	.860	.883	.883	.869
Pour Point (°C)	+20	+39	+30	+30

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Crude Oil Specifications (Continued)

	Stavropol' Devonian	Second Baku Karlinskaya	Buranchinskaya	Kuz'minovskaya
Classification According to GOST 912-46	2;3;3;332	2;3;3;222	2;3;3;332	2;3;3;332
Serial Number a/	153	144	146	147
Sulfur (Weight Percent)	1.63	4.32	2.48	2.17
Gasoline				
Yield (Weight Percent) b/	18	7.5	16	17.5
Octane Number	55	65	53	50.0
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	23	28.5	20	19.5
Octane Number	Below 20	32	22	20
Distillate Yield to 300°C (Percent)	41	36	36	37
Residue (Percent) e/	59	64	64	63
Resin (Residue) (Percent) e/	42	Above 60	51	51
Resin (Crude) (Percent) e/	24.8	38.4	32.6	32.1
Residue Less Resin (Percent) e/	34.2	25.6	31.4	30.9
Oil Fraction f/				
Gravity	About .907	.920	.920	.922
Viscosity/Gravity Constant	.851	.869	.869	.872
Pour Point (°C)	+46	+28	+27	+33

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Crude Oil Specifications (Continued)

	Second Baku			
	Kinzebulstovskaya	Ishimbay	Kusyapkulovskaya	Termen'-Yelginskaya
Classification According to GOST 912-46	2;3;3;332	2;3;3;333	2;3;3;333	2;3;3;333
Serial Number a/	148	157	158	159
Sulfur (Weight Percent)	2.76	2.7	3.5	3.0
Gasoline				
Yield (Weight Percent) b/	11	15	7	15
Octane Number	59.5	52	55	51.5
Octane Number (Leaded) c/		82		
Kerosene				
Yield Percent d/	21	28	31	27
Octane Number	20	25	20	21.5
Distillate Yield to 300°C (Percent)	32	43	38	42
Residue (Percent) e/	68	57	62	58
Resin (Residue) (Percent) e/	73	50	Above 60	69
Resin (Crude) (Percent) e/	49.6	28.5	37.2	34.5
Residue Less Resin (Percent) e/	18.4	28.5	24.8	23.5
Oil Fraction f/				
Gravity	.920	.935	.940	.935
Viscosity/Gravity Constant	.869	.890	.897	.890
Pour Point (°C)	+24	+28	+23	+28

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Crude Oil Specifications (Continued)

	Second Baku Tuymazy Carboniferous	Second Baku Tuymazy Tournaisian Formation	Second Baku Tuymazy Devonian	Shugurovo
Classification According to GOST 912-46	2;3;2;333	3;2;2;332	2;3;3;332	2;3;3;333
Serial Number a/	139	149	150	160
Sulfur (Weight Percent)	3.20	2.63	1.5	1.89
Gasoline				
Yield (Weight Percent) b/	10	10	19	8
Octane Number	45	49	50	51
Octane Number (Leaded) c/		80		
Kerosene				
Yield Percent d/	22	23	22	22
Octane Number	8.5	26	Below 20	Below 30
Distillate Yield to 300°C (Percent)	32	33	41	30
Residue (Percent) e/	68	67	59	70
Resin (Residue) (Percent) e/	82	Above 60	Above 60	64
Resin (Crude) (Percent) e/	55.8	40.2	35.4	44.8
Residue Less Resin (Percent) e/	12.2	26.8	23.6	25.2
Oil Fraction f/				
Gravity	.945	.926	.916	.930
Viscosity/Gravity Constant	.904	.878	.864	.883
Pour Point (°C)	+20	+24	+24	+40

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Crude Oil Specifications

	Groznyy Paraffinic, (Oktyabr'skaya)	Groznyy Paraffinic, West Sections	Groznyy Paraffinic, Solenaya Balka Section	Groznyy Paraffinic, Layer Under Fault
Classification According to GOST 912-46	1;2;3;332	1;2;3;332	1;2;3;332	1;2;3;332
Serial Number a/	75	76	77	78
Sulfur (Weight Percent)	0.19	0.20	0.18	0.21
Gasoline				
Yield (Weight Percent) b/	14	5.5	16	17
Octane Number	53	51.5	52.5	54
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	22	25.5	26	21
Octane Number	8	28	28	28
Distillate Yield to 300°C (Percent)	36	31	42	38
Residue (Percent) e/	64	69	58	62
Resin (Residue) (Percent) e/	25	17	21	30
Resin (Crude) (Percent) e/	16.0	11.7	12.2	18.6
Residue Less Resin (Percent) e/	48.0	57.3	45.8	43.4
Oil Fraction f/				
Gravity	.905	.905	.915	.906
Viscosity/Gravity Constant	.848	.848	.862	.850
Pour Point (°C)	+44	+41	+39	+42

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Crude Oil Specifications (Continued)

	Groznyy Oily Paraffin-Free	Gudermes Oil Well No. 7, Pool XXII	Gudermes Oil Well No. 22, Pool XXII	Oysangurskaya Oil Well No. 5, Pool XXII
Classification According to GOST 912-46	1;3;1;312	1;2;2;312	1;2;3;231	1;2;3;332
Serial Number a/	104	54	65	81
Sulfur (Weight Percent)	0.23	0.40	0.33	0.15
Gasoline				
Yield (Weight Percent) b/	21.5	28	About 2	19
Octane Number	58	60	About 68	59
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	20.5	21	19	19.7
Octane Number	44	41	22	29
Distillate Yield to 300°C (Percent)	42	49	21	Est.Av. 38.7
Residue (Percent) e/	58	51	79	61.3
Resin (Residue) (Percent) e/	42	31	34	29
Resin (Crude) (Percent) e/	24.4	15.8	26.9	17.8
Residue Less Resin (Percent) e/	33.6	35.2	52.1	43.5
Oil Fraction f/				
Gravity	.922	.920	.901	.904
Viscosity/Gravity Constant	.872	.869	.843	.847
Pour Point (°C)	-17	+10	+44	+41

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Crude Oil Specifications (Continued)

Groznyy

	Oysangurskaya Oil Well No. 41, Pool XXII	Muzhim-Biru	Malgobek Heavy	Malgobek Light
Classification According to GOST 912-46	1;2;3;331	1;2;1;012	1;3;1;112	1;3;3;332
Serial Number a/	69	44	88	127
Sulfur (Weight Percent)	0.41	0.37	0.45	0.30
Gasoline				
Yield (Weight Percent) b/	About 30	0	1	20
Octane Number	About 58		79	53.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	25	11	21	21
Octane Number	2	53	42	15
Distillate Yield to 300°C (Percent)	55	11	22	41
Residue (Percent) e/	45	89	78	59
Resin (Residue) (Percent) e/	22	31	41	52
Resin (Crude) (Percent) e/	9.9	27.6	32	30.7
Residue Less Resin (Percent) e/	35.1	61.4	46	28.3
Oil Fraction f/				
Gravity	.903	.912	.925	.917
Viscosity/Gravity Constant	.846	.858	.876	.865
Pour Point (°C)	+45	Below -20	Below -20	+40

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Crude Oil Specifications (Continued)

	Groznyy Voznesenskaya Heavy	Groznyy Voznesenskaya Light	Groznyy Ali-Yurt Oil Well No. 3	Gorskaya Heavy Pool II
Classification According to GOST 912-46	1;3;1;113	1;3;2;122	1;3;2;112	1;2;1;112
Serial Number a/	91	117	115	31
Sulfur (Weight Percent)	0.33	0.25	0.18	0.24
Gasoline				
Yield (Weight Percent) b/	0.4	1	About 0.2	0.2
Octane Number	79	80	About 80	82
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	17.6	28	17.8	24.2
Octane Number	41	36	41	49
Distillate Yield to 300°C (Percent)	18	29	18	24.4
Residue (Percent) e/	82	71	82	75.6
Resin (Residue) (Percent) e/	44	47	73	35
Resin (Crude) (Percent) 3/	36.1	33.4	59.9	26.5
Residue Less Resin (Percent) e/	45.9	37.6	22.1	49.1
Oil Fraction f/				
Gravity	.930	.918	.912	.913
Viscosity/Gravity Constant	.883	.868	.858	.860
Pour Point (°C)	-20	+ 4	+ 5	Below -16

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Crude Oil Specifications (Continued)

	Groznyy			
	Gorskaya Heavy Pools III & IV	Gorskaya Heavy Pool XVIII	Gorskaya Paraffinic	Tash-Kalinskaya
Classification According to GOST 912-46	1;2;2;112	1;2;3;112	1;2;3;231	1;2;2;331
Serial Number a/	48	61	64	56
Sulfur (Weight Percent)	0.22	0.21	0.25	0.23
Gasoline				
Yield (Weight Percent) b/	0.2	0.8	5	About 20
Octane Number	81	78	65	About 60
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	24.2	23.6	27	26
Octane Number	54	40	28	0
Distillate Yield to 300°C (Percent)	24.4	24.4	32	46
Residue (Percent) e/	75.6	75.6	68	54
Resin (Residue) (Percent) e/	35	30	30	20
Resin (Crude) (Percent) e/	26.5	22.7	20.4	10.8
Residue Less Resin (Percent) e/	49.1	52.9	47.6	43.2
Oil Fraction f/				
Gravity	.905	.908	.900	About .892
Viscosity/Gravity Constant	.848	.853	.842	About .820
Pour Point (°C)	-10	+35	+45	+20

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Crude Oil Specifications

Kubano-Chernomorskiy

	Apsheronskiy Heavy, Pool C_1	Apsheronskiy West Sections, Shirvanskiy Wells	Apsheronskiy Light, Paraffin-Free, Pool C_2	Apsheronskiy Levels I & III
Classification According to GOST 912-46	1;2;1;113	1;3;1;113	1;3;2;322	1;3;3;333
Serial Number a/	32	96	121	133
Sulfur (Weight Percent)	0.23	0.34	0.18	0.27
Gasoline				
Yield (Weight Percent) b/	6	1	31	7
Octane Number	72	76	58	62
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	29	22	25	32
Octane Number	45	54	30	29
Distillate Yield to 300°C (Percent)	35	23	56	39
Residue (Percent) e/	65	77	44	61
Resin (Residue) (Percent) e/	28	39	36	40
Resin (Crude) (Percent) e/	18.2	30.0	15.8	24.4
Residue Less Resin (Percent) e/	46.8	47.0	28.2	36.6
Oil Fraction f/				
Gravity	.934	.944	.922	.934
Viscosity/Gravity Constant	.889	.902	.872	.889
Pour Point (°C)	Below -20	-20	-11	+25

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Crude Oil Specifications (Continued)

	Apsheronskiy Central Sections, Shirvanskiy Wells	Kubano-Chernomorskiy Khadyzhenskaya Light	Kubano-Chernomorskiy Gora Asfal' Tovaya Light	Kubano-Chernomorskiy Shirokaya Balka Light
Classification According to GOST 912-46	-;-;-;11-	1;2;3;213	1;2;3;332	1;2;3;332
Serial Number a/		63	82	83
Sulfur (Weight Percent)		0.21	0.18	0.31
Gasoline				
Yield (Weight Percent) b/	4	16	21.5	20
Octane Number	76	69	59	62.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/		27	21.5	22
Octane Number	50	40	25	Below 20
Distillate Yield to 300°C (Percent)		43	43	42
Residue (Percent) e/		57	57	58
Resin (Residue) (Percent) e/		28	28	28
Resin (Crude) (Percent) e/		16.0	16.0	16.2
Residue Less Resin (Percent) e/		41.0	41.0	41.8
Oil Fraction f/				
Gravity		.928	.914	.908
Viscosity/Gravity Constant		.880	.861	.853
Pour Point (°C)		+25	+37	+45

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Crude Oil Specifications (Continued)

Kubano-Chernomorskiy

	Adagumskaya	Kaluga	Keslerovskaya	Kutaisskaya
Classification According to GOST 912-46	1;2;1;013	1;3;1;013	1;3;2;213	1;3;3;222
Serial Number a/	112	113	119	123
Sulfur (Weight Percent)	0.48	0.50	0.43	0.20
Gasoline				
Yield (Weight Percent) b/	0	0	15	7
Octane Number			66	71
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	17	11	26	23
Octane Number	56	50	57	38
Distillate Yield to 300°C (Percent)	17	11	41	30
Residue (Percent) e/	83	89	59	70
Resin (Residue) (Percent) e/	72	67	44	36
Resin (Crude) (Percent) e/	59.8	59.6	26.0	25.2
Residue Less Resin (Percent) e/	23.2	29.4	33	44.8
Oil Fraction f/				
Gravity	.957	.946	.942	.912
Viscosity/Gravity Constant	.915	.905	.900	.858
Pour Point (°C)	Below -20	Below -20	-10	+40

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Crude Oil Specifications (Continued)

	Kubano-Chernomorskiy: Khadyzhenskaya Heavy, Level III	Kubano-Chernomorskiy: Kura-Tsetse Light
Classification According to GOST 912-46	.1;3;3;222	1;3;3;332
Serial Number a/	124	129
Sulfur (Weight Percent)	0.21	0.21
Gasoline		
Yield (Weight Percent) b/	2	15
Octane Number	66	64
Octane Number (Leaded) c/		
Kerosene		
Yield Percent d/	28	23
Octane Number	33	Below 27
Distillate Yield to 300°C (Percent)	30	38
Residue (Percent) e/	70	62
Resin (Residue) (Percent) e/	50	39
Resin (Crude) (Percent) e/	35.0	24.2
Residue Less Resin (Percent) e/	35.0	37.8
Oil Fraction f/		
Gravity	.915	.914
Viscosity/Gravity Constant	.862	.861
Pour Point (°C)	+33	+36

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Crude Oil Specifications

Fergana

	Ala-Myshikskaya	Andizhan Pool VII	Changyrtash	Palvantashskaya
Classification According to GOST 912-46	1;2;3;331	1;2;3;331	1;2;3;332	1;3;3;331
Serial Number a/	68	71	84	125
Sulfur (Weight Percent)	0.11	0.27	0.41	0.22
Gasoline				
Yield (Weight Percent) b/	13.8	16	12	10
Octane Number	51.5	41	53	50.5
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	31.2	29	24	33
Octane Number	Below 20	Below 23	12	Below 20
Distillate Yield to 300°C (Percent)	45	45	36	43
Residue (Percent) e/	55	55	64	57
Resin (Residue) (Percent) e/	25	25	21	37
Resin (Crude) (Percent) e/	13.7	13.7	11.3	21.1
Residue Less Resin (Percent) e/	41.3	41.3	52.7	35.9
Oil Fraction f/				
Gravity	.893	.887	.910	.885
Viscosity/Gravity Constant	.832	.824	.855	.821
Pour Point (°C)	+52	+48	+35	+43

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Crude Oil Specifications (Continued)

	Fergana			
	Nefteabad	Kimovskaya	Chimion	Shor-Su Pool K (VIII)
Classification According to GOST 912-46	1;3;3;331	-;-;-;332	-;-;-;332	-;-;-;332
Serial Number a/	126	131	132	85
Sulfur (Weight Percent)	0.42	0.40	0.30	0.35
Gasoline				
Yield (Weight Percent) b/	15	14	8	21
Octane Number	51	55	55	54
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	25	29	27	30
Octane Number	28	27	27	9
Distillate Yield to 300°C (Percent)	40	43	35	51
Residue (Percent) e/	60	57	65	49
Resin (Residue) (Percent) e/	36	54	65	23
Resin (Crude) (Percent) e/	21.6	30.8	42.2	11.3
Residue Less Resin (Percent) e/	38.4	26.2	22.8	37.7
Oil Fraction f/				
Gravity	.895	.914	.904	.905
Viscosity/Gravity	.835	.861	.846	.848
Pour Point (°C)	+50	+32	+35	+45

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Crude Oil Specifications (Continued)

Fergana

	Shor-Su Pool L (VII)	Shor-Su Pool M (V)
Classification According to GOST 912-46	-;-;-;332	-;-;-;332
Serial Number a/	154	(CIA No. 823960)
Sulfur (Weight Percent)	1.54	1.04
Gasoline		
Yield (Weight Percent) b/	12	5
Octane Number	55.5	52
Octane Number (Leaded) c/		
Kerosene		
Yield Percent d/	21	
Octane Number	28	26
Distillate Yield to 300°C (Percent)	33	
Residue (Percent) e/	67	
Resin (Residue) (Percent) e/	60	+60
Resin (Crude) (Percent) e/	26.8	About 40
Residue Less Resin (Percent) e/	40.2	
Oil Fraction f/		
Gravity	.905	.912
Viscosity/Gravity Constant	.848	
Pour Point (°C)	+40	

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Crude Oil Specifications

Sakhalin

	Katangliyskaya	Ekhabi	Okha Pool III	Okha Pool VII
Classification According to GOST 912-46	1;2;1;013	1;2;3;212	1;3;1;013	1;3;2;113
Serial Number a/	45	62	114	116
Sulfur (Weight Percent)	0.42	0.23	0.31	0.40
Gasoline				
Yield (Weight Percent) b/	0	27	0	1
Octane Number		71.5		75
Octane Number (Leaded) c/		87.5		
Kerosene				
Yield Percent d/	10	37	26	27
Octane Number	48	40	Above 40	Above 40
Distillate Yield to 300°C (Percent)	10	64	26	28
Residue (Percent) e/	90	36	74	72
Resin (Residue) (Percent) e/	34	33	51	48
Resin (Crude) (Percent) e/	30.6	11.9	37.7	34.6
Residue Less Resin (Percent) e/	59.4	24.1	36.3	37.4
Oil Fraction f/				
Gravity	.938	.923	.948	.940
Viscosity/Gravity Constant	.894	.873	.908	.897
Pour Point (°C)	Below -20	+23	Below -20	+ 8

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Crude Oil Specifications (Continued)

Sakhalin

	Okha Pools XI-XII	Okha Pool XIII bis	Okha Pool XIV
Classification According to GOST 912-46	1;3;3;213	2;2;2;112	-;-;-;212
Serial Number a/	122	134	
Sulfur (Weight Percent)	0.28	0.59	
Gasoline			
Yield (Weight Percent) b/	8	2.4	4
Octane Number	70	75	70
Octane Number (Leaded) c/			
Kerosene			
Yield Percent d/	26	31.6	
Octane Number	45	43	48
Distillate Yield to 300°C (Percent)	34	34	
Residue (Percent) e/	66	66	
Resin (Residue) (Percent) e/	40	30	
Resin (Crude) (Percent) e/	39.6	46.2	
Residue Less Resin (Percent) e/	26.4	19.8	
Oil Fraction f/			
Gravity	.930	.925	.920
Viscosity/Gravity Constant	.883	.876	
Pour Point (°C)	+28	+ 5	

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Crude Oil Specifications

	Yarega	Sed'iel'skaya	Ukhta Oil Field No. I	Ukhta Oil Field No. III
Classification According to GOST 912-46	2;3;2;012	2;3;2;012	2;3;3;332	2;3;2;012
Serial Number a/	140	141	155	142
Sulfur (Weight Percent)	1.09	0.90	1.10	1.20
Gasoline				
Yield (Weight Percent) b/	0	0	15	0
Octane Number				
Octane Number (Leaded) c/			52	
Kerosene				
Yield Percent d/	12	17	25	14
Octane Number	45	About 40	25	47
Distillate Yield to 300°C (Percent)	12	17	40	14
Residue (Percent) e/	88	83	60	86
Resin (Residue) (Percent) e/	60	47	60	66
Resin (Crude) (Percent) e/	52.8	39.0	36.0	56.8
Residue Less Resin (Percent) e/	35.2	44	24.0	29.2
Oil Fraction f/				
Gravity	.919	.910	.915	.915
Viscosity/Gravity Constant	.868	.855	.862	.862
Pour Point (°C)	-12	+13	+30	-12

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Crude Oil Specifications

Central Asia, South Petroleum Region

	Uch-Kizyl	Khaudag
Classification According to GOST 912-46	2;3;3;322	2;3;3;333
Serial Number a/	145	156
Sulfur (Weight Percent)	5.3	3.5
Gasoline		
Yield (Weight Percent) b/	2	5
Octane Number	59	52
Octane Number (Leaded) c/		
Kerosene		
Yield Percent d/	10	17
Octane Number	32	27
Distillate Yield to 300°C (Percent)	12	22
Residue (Percent) e/	88	78
Resin (Residue) (Percent) e/	Above 60	Above 60
Resin (Crude) (Percent) e/	52.8	46.8
Residue Less Resin (Percent) e/	35.2	31.2
Oil Fraction f/		
Gravity	.920	.930
Viscosity/Gravity Constant	.869	.883
Pour Point (°C)	+35	+35

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Crude Oil Specifications

Severnyy (Nordviyskiy)

	Nordvikskaya Subkarniyskiy Level
Classification According to GOST 912-46	.2;3;1;013
Serial Number a/	137
Sulfur (Weight Percent)	.91
Gasoline	
Yield (Weight Percent) b/	0
Octane Number	
Octane Number (Leaded) c/	
Kerosene	
Yield Percent d/	20
Octane Number	45
Distillate Yield to 300°C (Percent)	20
Residue (Percent) e/	80
Resin (Residue) (Percent) e/	61
Resin (Crude) (Percent) e/	48.8
Residue Less Resin (Percent) e/	31.2
Oil Fraction f/	
Gravity	.935
Viscosity/Gravity Constant	.890
Pour Point (°C)	-18

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Crude Oil Specifications

Western Region of Ukraine

	Bystrinskaya Low Paraffin Content	Skhodnitsa Paraffin-Free	Bitkovskaya Paraffinic	Borislav Paraffinic
Classification According to GOST 912-46	1;1;2;323	1;2;1;322	1;2;3;331	1;2;3;332
Serial Number a/	14	38	72	86
Sulfur (Weight Percent)	0.25	0.30	0.32	0.30
Gasoline				
Yield (Weight Percent) b/	66	2	4.5	12
Octane Number	56	60	60	60
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	9	54	47.5	33
Octane Number	30	32	0	26
Distillate Yield to 300°C (Percent)	75	56	52	45
Residue (Percent) e/	25	44	48	55
Resin (Residue) (Percent) e/	7	25	26	30
Resin (Crude) (Percent) e/	1.8	11	12.5	16.5
Residue Less Resin (Percent) e/	23.2	33	35.5	38.5
Oil Fraction f/				
Gravity	.928	.925	.900	.905
Viscosity/Gravity Constant	.880	.876	.842	.848
Pour Point (°C)	+ 5	-18	+43	+40

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Crude Oil Specifications

Kamchatka

Bogachevskaya	
Classification According to GOST 912-46	1;1;2;213
Serial Number a/	13
Sulfur (Weight Percent)	0.02
Gasoline	
Yield (Weight Percent) b/	15
Octane Number	68
Octane Number (Leaded) c/	
Kerosene	
Yield Percent d/	24
Octane Number	40
Distillate Yield to 300°C (Percent)	39
Residue (Percent) e/	61
Resin (Residue) (Percent) e/	1.5
Resin (Crude) (Percent) e/	1.0
Residue Less Resin (Percent) e/	60.0
Oil Fraction f/	
Gravity	.970
Viscosity/Gravity Constant	.938
Pour Point (°C)	+ 8

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Crude Oil Specifications

Kirovobad

	Naphthalic Paraffinic	Naphthalic High Paraffin Content
Classification According to GOST 912-46	1;2;2;112	1;2;3;032
Serial Number a/	49	87
Sulfur (Weight Percent)	About 0.30	About 0.19
Gasoline		
Yield (Weight Percent) b/	1	0
Octane Number	83	
Octane Number (Leaded) c/		
Kerosene		
Yield Percent d/	31.5	36
Octane Number	45	27
Distillate Yield to 300°C (Percent)	32.5	36
Residue (Percent) e/	67.5	64
Resin (Residue) (Percent) e/	About 30	20
Resin (Crude) (Percent) e/	20.2	12.8
Residue Less Resin (Percent) e/	47.3	51.2
Oil Fraction f/		
Gravity	.926	.918
Viscosity/Gravity	.878	.868
Pour Point (°C)	+ 4	+35

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Crude Oil Specifications

Dagestan

	Achi	Izberbash	Kaya-Kent	Makhachkala Oil Well No. 13
Classification According to GOST 912-46	1;2;3;332	1;2;3;332	1;3;1;313	1;3;3;332
Serial Number a/	79	80	105	128
Sulfur (Weight Percent)	0.17	0.15	0.28	0.25
Gasoline				
Yield (Weight Percent) b/	21	21	11	About 35
Octane Number	60	60	61	About 55
Octane Number (Leaded) c/				
Kerosene				
Yield Percent d/	26	23	24	10
Octane Number	15	15	40	Below 23
Distillate Yield to 300°C (Percent)	47	44	35	Est. 45
Residue (Percent) e/	53	56	65	Est. 55
Resin (Residue) (Percent) e/	26	21	46	47
Resin (Crude) (Percent) e/	13.8	11.8	29.9	25.8
Residue Less Resin (Percent) e/	39.2	44.2	35.1	29.2
Oil Fraction f/				
Gravity	.911	.909	.936	About .908
Viscosity/Gravity Constant	.857	.854	.891	About .853
Pour Point (°C)	+40	+43	-18	Above +39

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Crude Oil Specifications

Turkmenistan

Nebit-Dag

Classification According to GOST 912-46	1;3;1;222
Serial Number a/	102
Sulfur (Weight Percent)	0.24
Gasoline	
Yield (Weight Percent) b/	6
Octane Number	68.5
Octane Number (Leaded) c/	
Kerosene	
Yield Percent d/	29
Octane Number	34
Distillate Yield to 300°C (Percent)	35
Residue (Percent) e/	65
Resin (Residue) (Percent) e/	47
Resin (Crude) (Percent) e/	30.5
Residue Less Resin (Percent) e/	34.5
Oil Fraction f/	
Gravity	.912
Viscosity/Gravity Constant	.858
Pour Point (°C)	Below -20

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